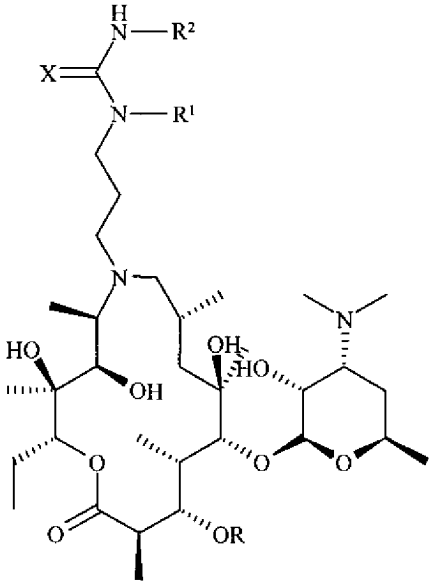
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~N''-Substituted 9a-N-(N'-carbamoyl-γ-aminopropyl), 9a-N-(N'-thiocarbamoyl-γ-aminopropyl), 9a-N-[N'-(β-cyanoethyl)-N'-carbamoyl-γ-aminoprolpyl] and- 9a-N-[N'-((β-cyanoethyl)-N'-thiocarbamoyl-γ-aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and or 5-O-desosaminyl-9--deoxo-9-dihydro-9a-aza-9a-homoerithronolide A, novel semisynthetic macrolide antibiotics of the azalide series of the general~~ A compound of formula 1,



wherein R represents H or cladinosyl moiety,

R^1 represents H or β-cyanoethyl moiety,

R^2 represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2-(trifluoromethyl)phenyl, 3-phenylpropyl, β-phenylethyl, ethoxycarbonyl-methyl, 1-(1-naphtyl)ethyl, 3,4,5-trimethoxyphenyl or a 2,4-dichlorophenyl group, and

X represents O or S,

~~and their acceptable addition salts thereof with inorganic or organic acids~~ or a pharmaceutically acceptable acid addition salt thereof.

2. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H, R^2 represents isopropyl group and X is O.

3. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H, and R^2 represents 1-naphthyl group and X is O.

4. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents 2-naphtyl group and X is O.

5. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents benzyl group and X is O.

6. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents 2-(trifluoromethyl) phenyl group and X represents O.

7. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents 3-phenylpropyl group and X is S.

8. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents β-phenylethyl group and X is S.

9. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents ethoxycarbonylmethyl group and X is O.

10. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents l-(l-naphtyl)ethyl group and X is O.

11. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents 3,4, 5-trimethoxyphenyl group and X is O.

12. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents 2,4-dichlorophenyl group and X is O.

13. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^1 represents H and R^2 represents benzyl group or 1-naphtyl group and X is S.

Claims 14 – 19 (Canceled)

20. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^l represents β-cyanoethyl group, R^2 represents 3-phenylpropyl group and X is S.

21. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^l represents β-cyanoethyl group, R^2 represents β-phenylethyl group and X is S.

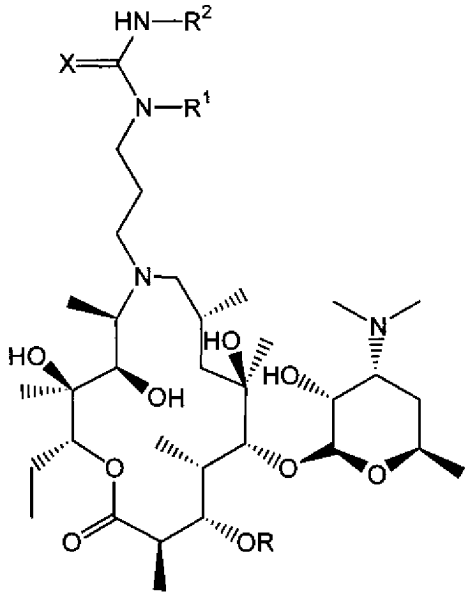
Claims 22 - 24 (Canceled)

25. (Currently Amended) ~~Substance~~ A compound according to claim 1, characterized in that R^l represents β-cyanoethyl group, R^2 represents 2,4-dichlorophenyl group and X is O.

Claims 26 – 53 (Canceled)

54. (Currently Amended) Process for the preparation of ~~N''-substituted 9a-N-(N'-carbamoyl-γ-aminopropyl), 9a-N-(N'-thiocarbamoyl-γ-aminopropyl), 9a-N-[N'-(β-cyanoethyl)-N'-carbamoyl-γ-aminopropyl] and 9a-N-[N'-(β-cyanoethyl)-N'-thiocarbamoyl-γ-aminopropyl] derivatives of 9-deoxo-9-~~

~~dihydro-9a-aza-9a-homoerithromycin A and or 5-O-desosaminyl-9-deoxo-9-dihydro-9a-aza-9a-homoerithronolide A,~~ a compound of ~~the general~~ formula 1,



1

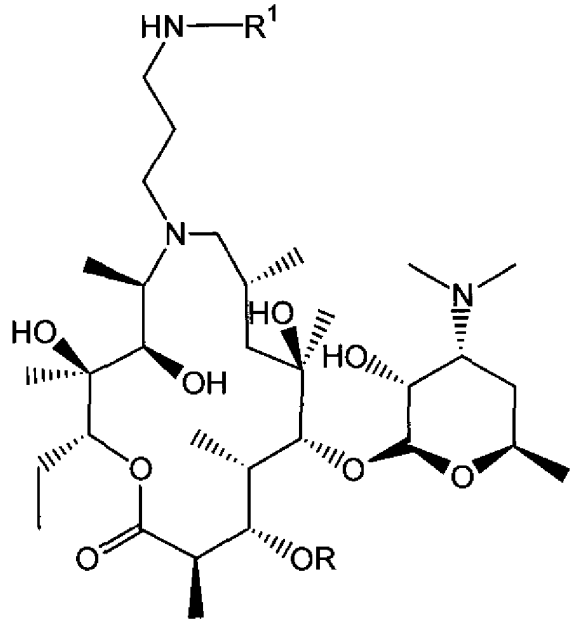
wherein R represents H or cladinosyl moiety,

R^1 represents H or β-cyanoethyl moiety,

R^2 represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2-(trifluoromethyl) phenyl, 3-phenylpropyl, β-phenylethyl, ethoxycarbonylmethyl, l-(l-naphtyl)ethyl, 3,4, 5-trimethoxyphenyl and 2,4-dichlorophenyl group, and

X represents O or S,

characterized in that ~~9a-N- (γ-aminopropyl) and or 9a-N-[N'-(β-cyanoethyl)-γ-aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerithromycin A and or 5-O-desosaminyl-9-deoxo-9-dihydro-9a-aza-9a-homoerithronolide A general~~ a compound of formula 2,

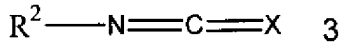


2

wherein R represents H or a cladinosyl group and

R^1 represents H or a β-cyanoethyl group

is reacted with isocyanates or isothiocyanates of general formula 3



3

wherein R^2 represents isopropyl, 1-naphtyl, 2-naphtyl, benzyl, 2-(trifluoromethyl) phenyl, 3-phenylpropyl, ~~(3-phenylethyl~~ β-phenylethyl, ethoxycarbonyl- methyl, 1-(1-naphtyl)ethyl, 3,4, 5-trimethoxyphenyl ~~and~~ or 2,4-dichlorophenyl group, and

X represents O or S,

in toluene, xylene or some others aprotic solvents at a temperature 0° -110° C and then, if appropriate, to a reaction with inorganic or organic acids.

55. (Currently amended) A Pharmaceutical compositions comprising a pharmaceutically acceptable carrier and an antibacterially effective amount of ~~the~~ a ~~substance~~ compound according to claim 1.

56. (Canceled)

57. (Currently amended) A method of treating bacterial infections in a mammal comprising administering to such mammal an antibacterially effective amount of ~~the~~ a ~~substance~~ compound of formula 1 according to claim 1.

58. (Currently amended) The method according to clam 57, wherein R^1 of a compound of formula 1 represents H.

59. (Currently amended) The method according to claim 57, wherein R^2 of a compound of formula 1 represents a 1-naphthyl, 2-naphthyl, 1-(1-naphtyl)ethyl, or 2,4-dichlorophenyl group.

60. (New) The method according to claim 57 wherein the mammal is a human.